

00037459-041897

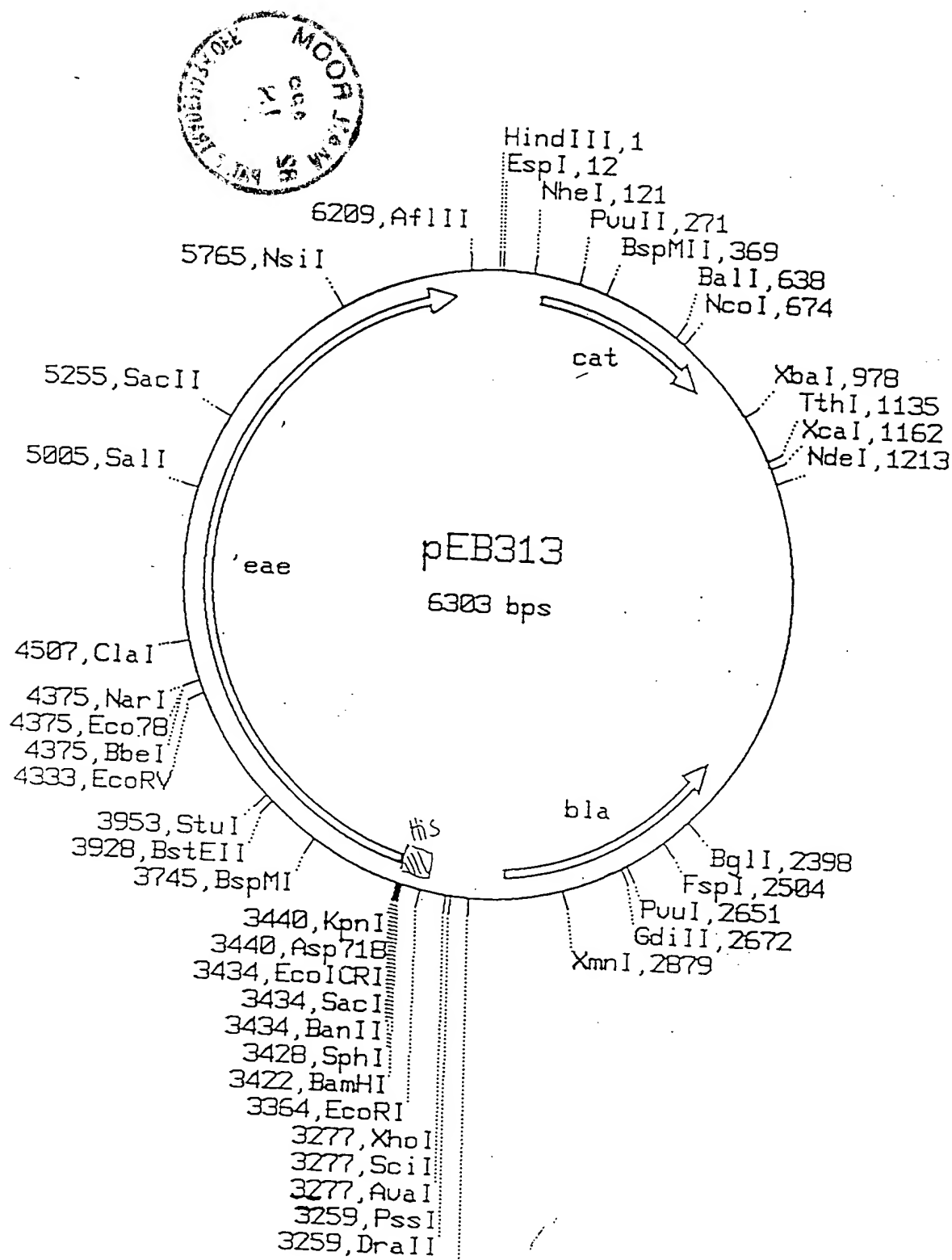


FIGURE 1



1 MITHGCYTRT RHKHKLKKTL IMLSAGLGLF FYVNQNSFAN GENYFKLGSD
51 SKLLTHDSYQ NRLFYTLKTG ETVADLSKSQ DINLSTIWSL NKHLYSSESE
101 MMKAAPGQQI ILPLKKLPFE YSALPLLGSA PLVAAGGVAG HTNKLTKMSP
151 DVTKSNMTDD KALNYAAQQA ASLGSQQLSR SLNGDYAKDT ALGIAGNQAS
201 SQLQAWLQHY GTAENVLQSG DNFDGSSLDF LLPFYDSEKM LAFQGVGARY
251 IDSRTANLG AGQRFFLPAN MLGYNVFIDQ DFSGDNTRLG IGGEYWRDYF
301 KSSVNGYFRM RRWHESYHKK DYDERPANGF DIRFNGYLP YPALGAKLIY
351 EQYYGDNVAL FNSDKLQSNP GAATVGVNYT PIPLYTMGID YRHGTGNEND
401 LLYSMQFRYQ FDKSWSQQIE PQYVNELRTL SGSRYDLVQR NNNIILEYKK
451 QDILSLNIPH DINGTEHSTQ KIQILIVKSKY GLDRIVWDDS ALRSQGGQIQ
501 HSGSQAQDY QAILPAYVQG GSNIYKVTAR AYDRNGNSSN NVQLTITVLS
551 NGQVVDQVGV TDFTADKTS KADNADTITY TATVKKNGVA QANVPVSFNI
601 VSGTATLGAN SAKTDANGKA TVTLKSSTPG QVVVSAKAE MSSALNASAV
651 IFFDQTKASI TEIKADKTTA VANGKDAIKY TVKVMKNGQP VNNQSVTFST
701 NFGMFNGKSQ TQATTGNDGR ATITLTSSSA GKATVSATVS DGAEVKATEV
751 TFFDELKIDN KVDIIGNNVR GELPNIWLQY GQFKLKASGG DGTYSWYSEN
801 TSIATVDASG KVTLNGKGSV VIKATSGDKQ TVSYTIKAPS YMIKVDKQAY
851 YADAMSICKN LLPSTQTVLS DIYDSWGAAN KYSHYSSMNS ITAWIKQTSS
901 EQRSGVSSY NLITQNPLPG VNVNTPNVYA VCVE

1	TCGAGAATGA	AATAGAAGTC	GTTGTAAAGT	CAATGGAAAA	CCTGTATTTG	GTATTACATA
61	ATCAGGGAAT	AACATTAGAA	AACGAACATA	TGAAAATAGA	GGAAATCAGT	TCAAGCGACA
121	ATAAACATTA	TTACGCCGGA	AGATAAAATC	CGATCTATTA	ATATAATTTA	TTTCTCATTC
181	TAAGTCATTG	TGGTGGAGCC	ATAACATGAT	TACTCATGGT	TGTTATACCC	GGACCCGGCA
241	CAAGCATAAG	CTAAAAAATA	CATTGATTAT	GCTTAGTGCT	GGTTTAGGAT	TGTTTTTTTA
301	TGTTAATCAG	AATTCATTTG	CAAATGGTGA	AAATTATTTT	AAATTGGGTT	CGGATTCAAA
361	ACTGTAACT	CATGATAGCT	ATCAGAATCG	CCTTTTTTAT	ACGTTGAAAA	CTGGTGAAAC
421	TGTTGCCGAT	CTTTCTAAAT	CGCAAGATAT	TAATTTATCG	ACGATTGGT	CGTTGAATAA
481	GCATTTATAC	AGTTCTGAAA	GCGAAATGAT	GAAGGCCGCG	CCTGGTCAGC	AGATCATTTT
541	GCCACTCAAA	AAACTTCCCT	TTGAATACAG	TGCACTACCA	CTTTTAGGTT	CGGCACCTCT
601	TGTTGCTGCA	GGTGGTGTG	CTGGTCACAC	GAATAAACTG	ACTAAAATGT	CCCCGGACGT
661	GACCAAAAGC	AACATGACCG	ATGACAAGGC	ATTAAATTAT	GCGGCACAAC	AGGCGGCGAG
721	TCTCGGTAGC	CAGCTTCAGT	CGCGATCTCT	GAACGGCGAT	TACGCGAAAG	ATACCGCTCT
781	TGGTATCGCT	GGTAACCAGG	CTTCGTCACA	GTTGCAGGCC	TGGTTACAAC	ATTATGGAAC
841	GGCAGAGGTT	AATCTGCAGA	GTGGTAATAA	CTTTGACGGT	AGTTCACCTG	ACTTCTTATT
901	ACCGTTCTAT	GATTCGGAAA	AAATGCTGGC	ATTTGGTCAG	GTCGGAGCGC	GTTACATTGA
961	CTCCCGCTTT	ACGGCAAAT	TAGGTGCGGG	TCAGCGTTTT	TTCCTTCCTG	CAAACATGTT
1021	GGGCTATAAC	GTCTTCATTG	ATCAGGATTT	TTCTGGTGAT	AATACCCGTT	TAGGTATTGG
1081	TGGCGAATAC	TGGCGAGACT	ATTTCAAAG	TAGCGTTAAC	GGCTATTTCC	GCATGAGCGG
1141	CTGGCATGAG	TCATACAATA	AGAAAGACTA	TGATGAGCGC	CCAGCAAATG	GCTTCGATAT
1201	CCGTTTTAAT	GGCTATCTAC	CGTCATATCC	GGCATTAGGC	GCCAAGCTGA	TATATGAGCA
1261	GTATTATGGT	GATAATGTTG	CTTTGTTTAA	TTCTGATAAG	CTGCAGTCGA	ATCCTGGTGC
1321	GGCGACCGTT	GGTGTAACCT	ATACTCCGAT	TCCTCTGGTG	ACGATGGGGA	TCGATTACCG
1381	TCATGGTACG	GGTAATGAAA	ATGATCTCCT	TTACTCAATG	CAGTTCGGTT	ATCAGTTTGA
1441	TAAATCGTGG	TCTCAGCAAA	TTGAACCACA	GATGTGTTAA	GAGTTAAGAA	CATTATCAGG
1501	CAGCCGTTAC	GATCTGGTTC	AGCGTAATAA	CAATATTATT	CTGGAGTACA	AGAAGCAGGA
1561	TATTCTTTCT	CTGAATATTTC	CGCATGATAT	TAATGGTACT	GAACACAGTA	CGCAGAAGAT
1621	TCAGTTGATC	GTAAAGAGCA	AATACGGTCT	GGATCGTATC	GTCTGGGATG	ATAGTGCATT
1681	ACGCAGTCAG	GGCGGTCAGA	TTCAGCATAG	CGGAAGCCAA	AGCGCACAAG	ACTACCAGGC
1741	TATTTTGCCT	GCTTATGTGC	AAGGTGGCAG	CAATATTTAT	AAAGTGACGG	CTCGCGCCTA
1801	TGACCGTAAT	GGCAATAGCT	CTAACAATGT	ACAGCTTACT	ATTACCGTTC	TGTCGAATGG
1861	TCAAGTTGTC	GACCAGGTTG	GGGTAACGGA	CTTTACGGCG	GATAAGACTT	CGGCTAAAGC
1921	GGATAACGCC	GATACCATTA	CTTATACCGC	GACGGTGAAA	AAGAATGGGG	TAGCTCAGGC
1981	TAATGTCCCT	GTTTCATTTA	ATATTGTTTC	AGGAACTGCA	ACTCTTGGGG	CAAATAGTGC
2041	CAAAACGGAT	GCTAACGGTA	AGGCAACCGT	AACGTTGAAG	TCGAGTACGC	CAGGACAGGT
2101	CGTCGTGTCT	GCTAAAACCG	CGGAGATGAC	TTCAGCACTT	AATGCCAGTG	CGGTTATATT
2161	TTTTGATCAA	ACCAAGGCCA	GCATTACTGA	GATTAAGGCT	GATAAGACAA	CTGCAGTAGC
2221	AAATGGTAAG	GATGCTATTA	AATATACTGT	AAAAGTTATG	AAAAACGGTC	AGCCAGTTAA
2281	TAATCAATCC	GTTACATTCT	CAACAAACTT	TGGGATGTTT	AACGGTAAGT	CTCAAACGCA
2341	AGCAACCACG	GGAAATGATG	GTCGTGCGAC	GATAACACTA	ACTTCCAGTT	CCGCCGGTAA
2401	AGCGACTGTT	AGTGCGACAG	TCAGTGATGG	GGCTGAGGTT	AAAGCGACTG	AGGTCACTTT
2461	TTTTGATGAA	CTGAAAATTG	ACAACAAGGT	TGATATTATT	GGTAACAATG	TCAAGAGGTC
2521	GATGTTGCCT	AATATTTGGC	TGCAATATGG	TCAGTTTAAA	CTGAAAGCAA	GCGGTGGTGA
2581	TGGTACATAT	TCATGGTATT	CAGAAAATAC	CAGTATCGCG	ACTGTGATG	CATCAGGGAA
2641	AGTCACMTTG	AATGGTAAAG	GCAGTGTCGT	AATTAAGGCC	ACATCTGGTG	ATAAGCAAAC
2701	AGTAAGTTAC	ACTATAAAAG	CACCGTCGTA	TATGATAAAA	GTGGATAAGC	AAGCCTATTA
2761	TGCTGATGCT	ATGTCCATTT	GCAAAAATTT	ATTACCATCC	ACACAGACGG	TATTGTCAGA
2821	TATTTATGAC	TCATGGGGGG	CTGCAAATAA	ATATAGCCAT	TATAGTTCTA	TGAACTCAAT
2881	AACTGCTTGG	ATTAAACAGA	CATCTAGTGA	GCAGCGTTCT	GGAGTATCAA	GCACTTATAA
2941	CCTAATAACA	CAAAACCCCTC	TTCTTGGGGT	TAATGTTAAT	ACTCCAAATG	TCTATGCGGT
3001	TTGTGTAGAA	TAATTCCATA	ACCACCCCGG	CTAAAAATATG	TATTGTTTTA	GTCGGGGCAT
3061	AATTATTTCT	TCTTAAGAAA	TAACCCTCTT	ATAATCAAAT	CTACTACTGG	TCTTTTTATC
3121	TGCTTAATAG	G				

FIGURE 3



Sn20-MM2 eae

(3144 bps)

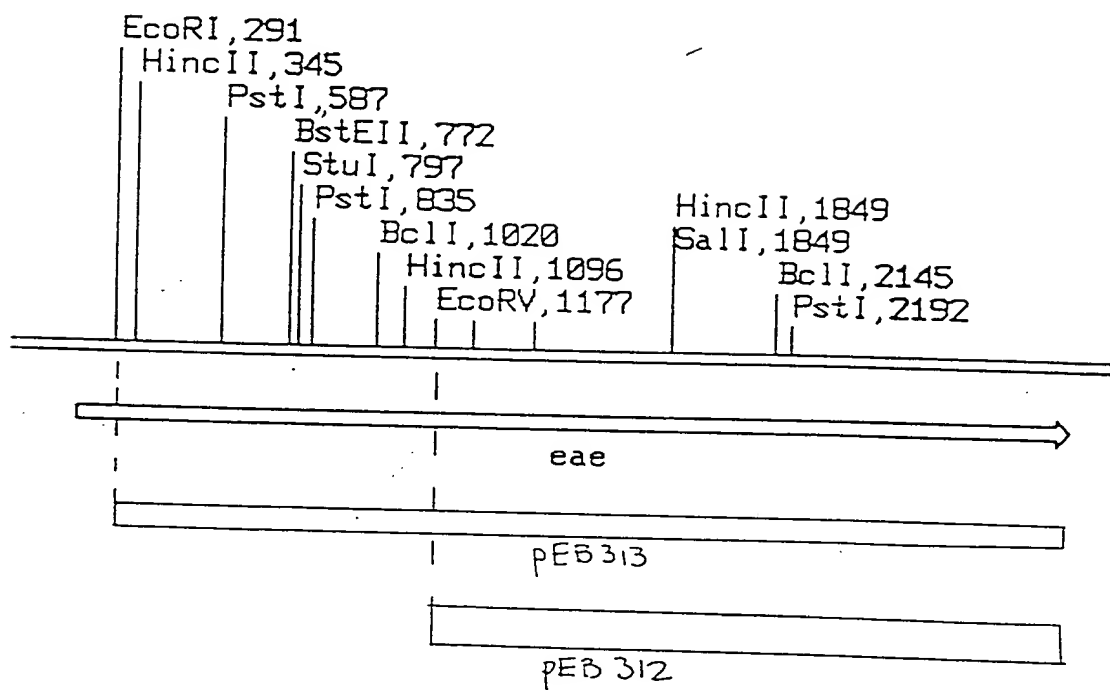


FIGURE 5

63740-63743

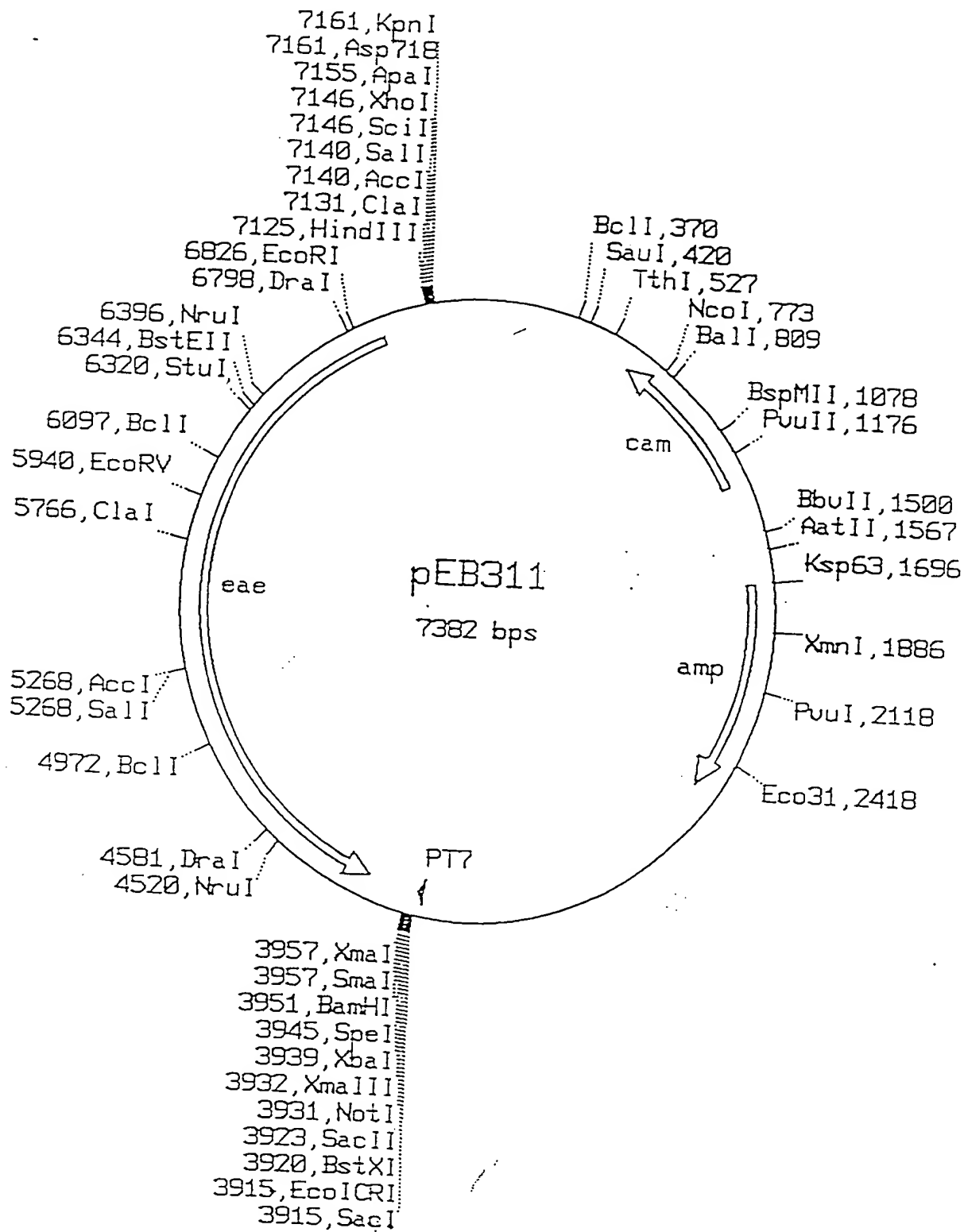


FIGURE 6

463740-637400

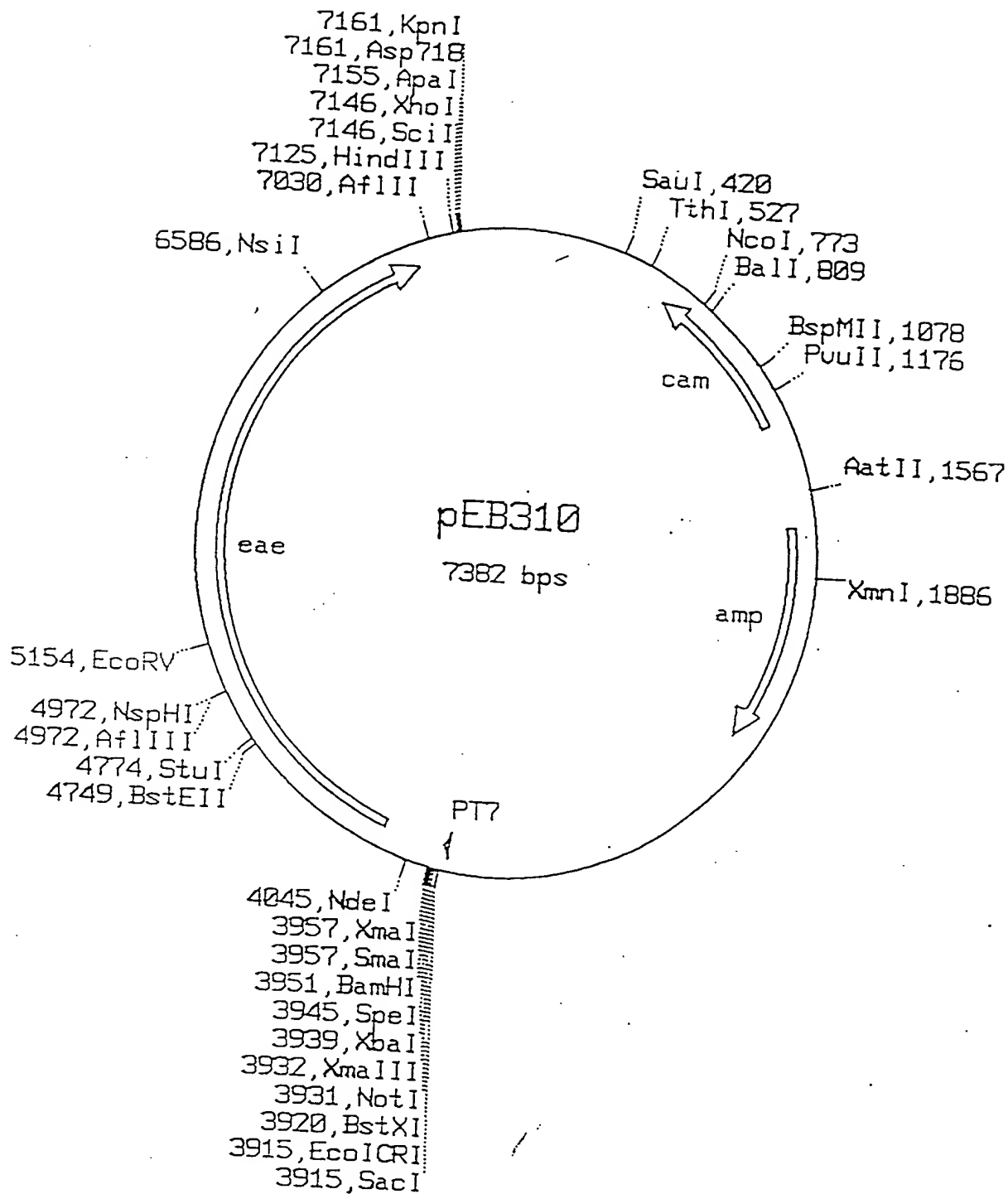


FIGURE 7

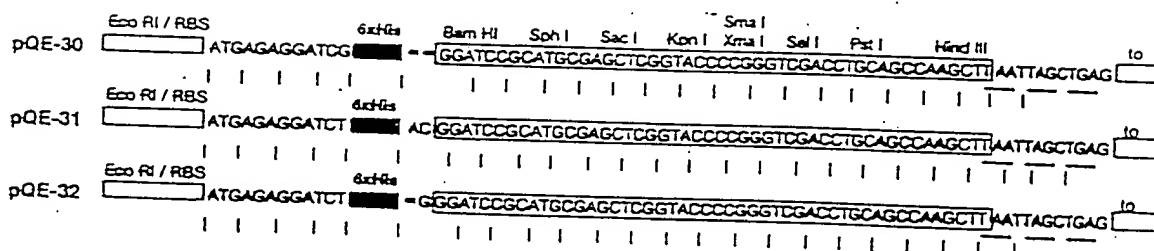
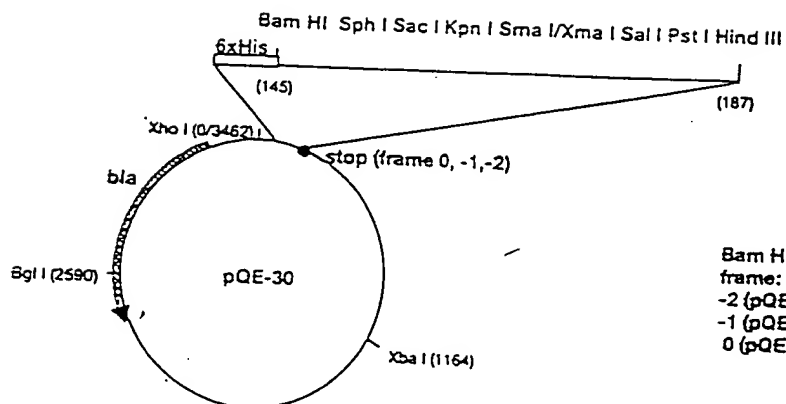
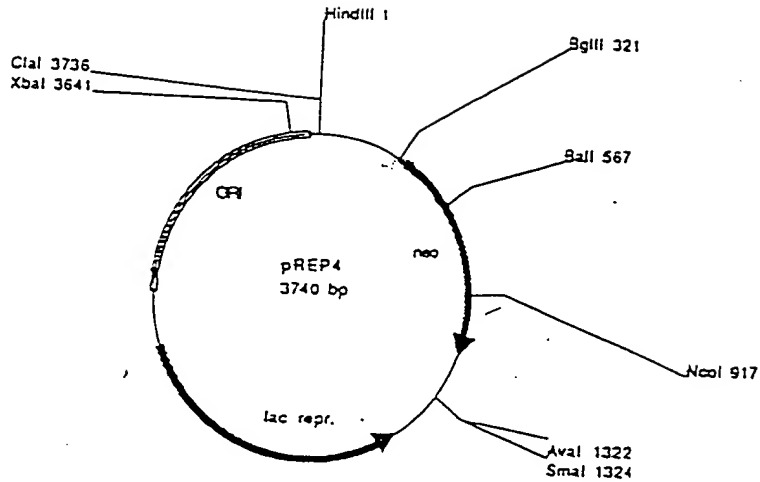


FIGURE 8



Xho I
 1 CTCGAGAAAT CATAAAAAAT TTATTTCCTT TGTGAGCGGA TAACAATTAT
 operator I
 TATA-Box
 Eco RI
 51 AATAGATTCA ATTGTGAGCG GATAACAATT TCACACAGAA TTCATTAAAG
 operator II
 +1 start mRNA
 ATG →
 101 AGGAGAAATT AACTATGAGA GGATCGCATC ACCATCACCA TCACGGATCC
 RBS/SD
 6xHis
 Bam HI
 151 GCATGCGAGC TCGGTACCCC GGGTCGACCT GCAGCCAAGC TTAATTAGCT
 Sph I Sac I Kpn I Sma I Sal I Pst I Hind III
 Stop 123
 201 GAGCTTGGAC TCCTGTTGAT AGATCCAGTA ATGACCTCAG AACTCCATCT

FIGURE 9

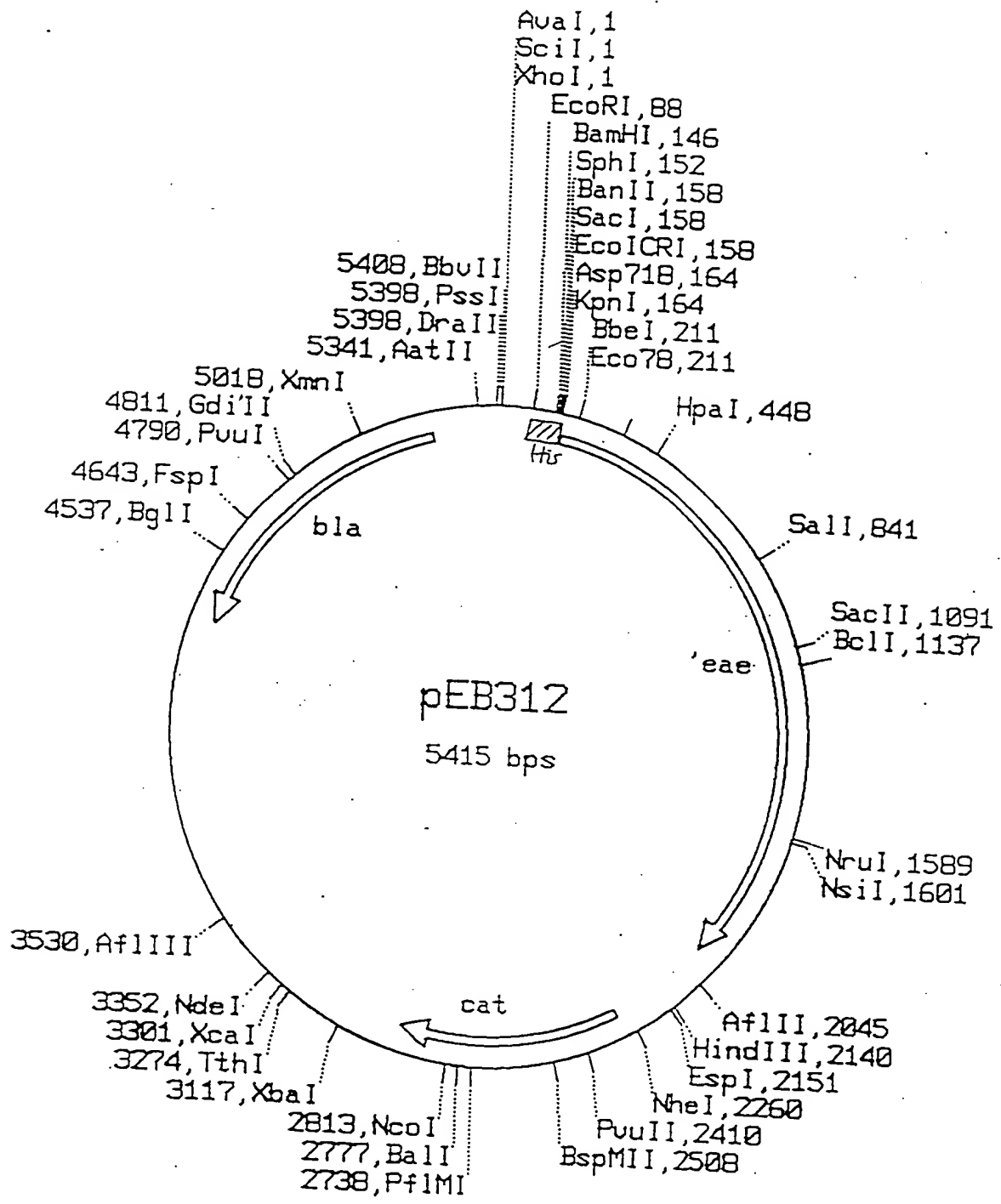


FIGURE 10

His-Intimin Structure-Function



pMW101

pMW102

pMW103

pMW104

pMW105

pMW106

pMW114

Intimin: C-terminal constructs

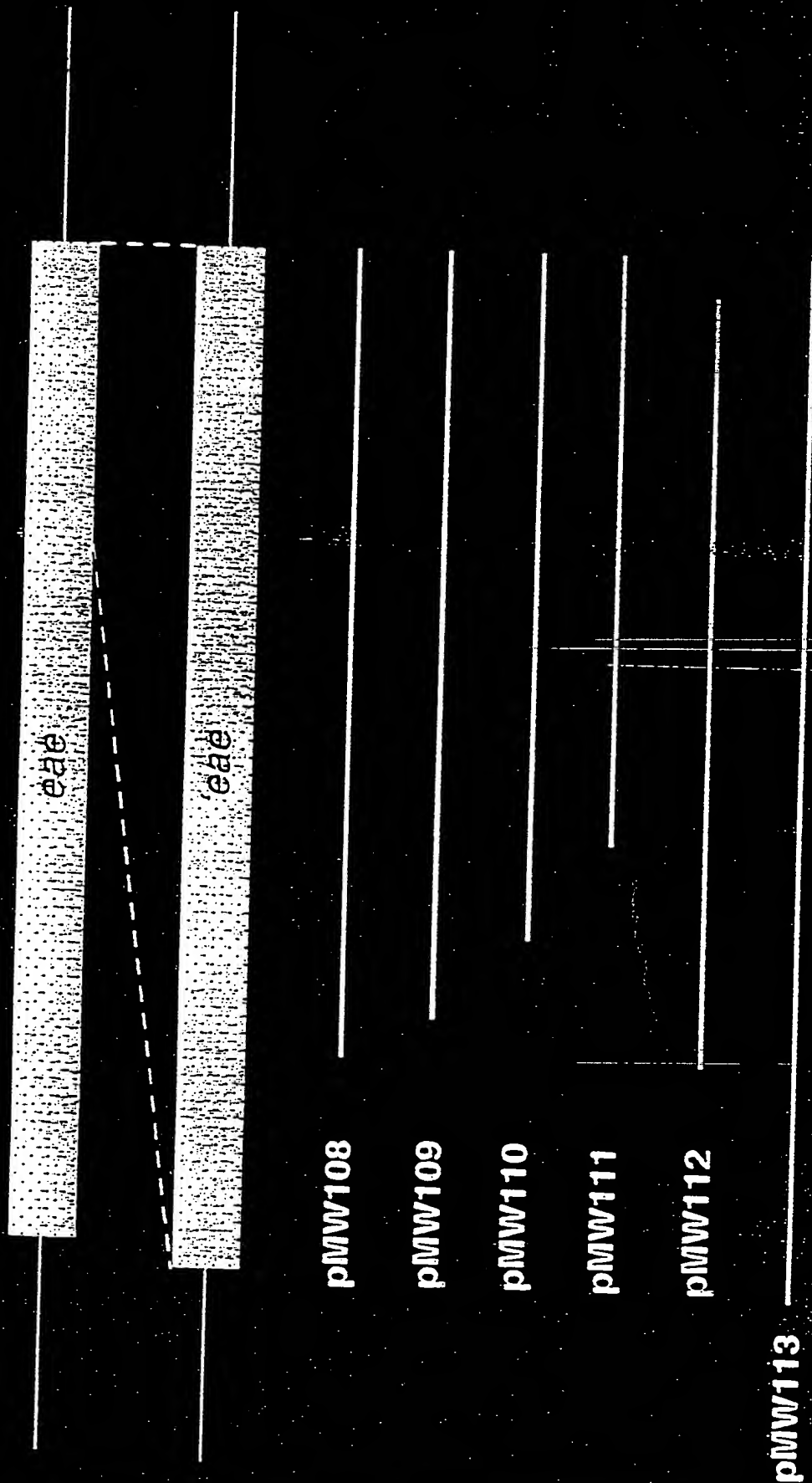


FIGURE 12

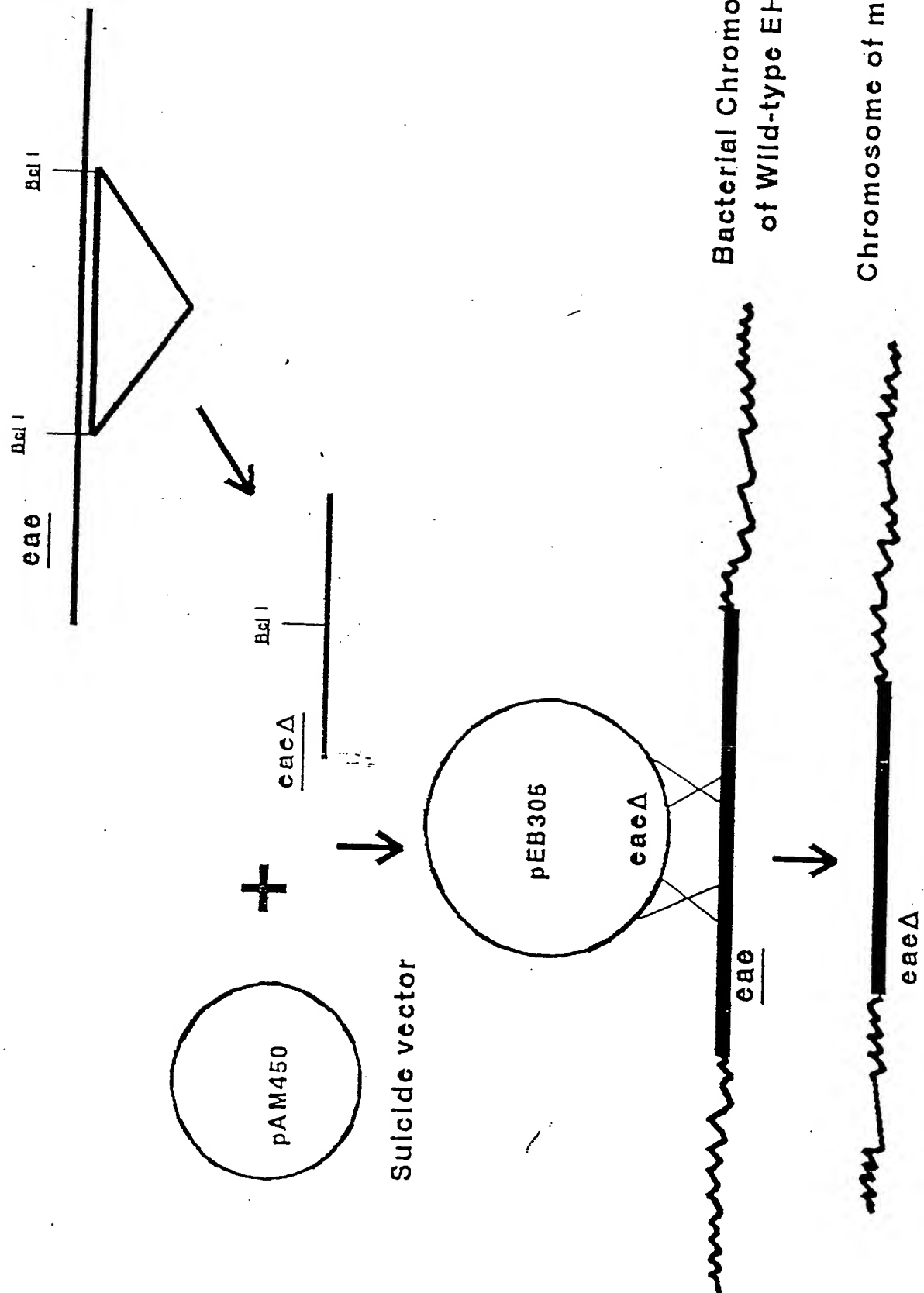
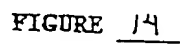
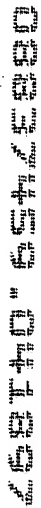


FIGURE 13



003749-0439
453740-6542330

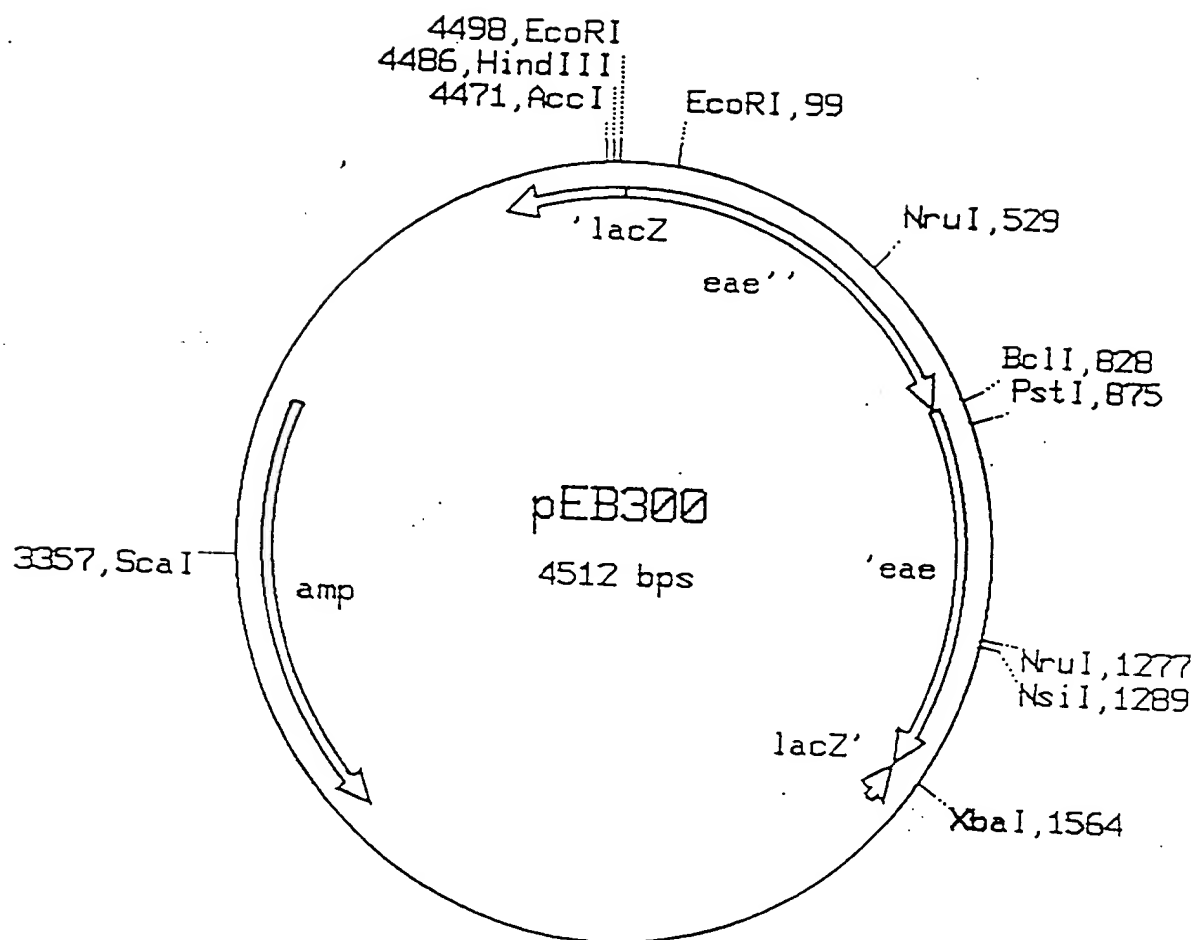
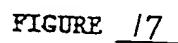
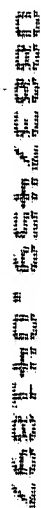


FIGURE 15

Diagram of the pAM450 plasmid (6966 bps). Key features include the *amp* gene, the *repA* gene, and the *sacB/R* gene. Restriction enzyme sites are marked: EcoRI (168, 891), BamHI (189), XbaI (195), SalI (201), PstI (207, 2252), StuI (932, 5535), and HindIII (2027, 2264).

1



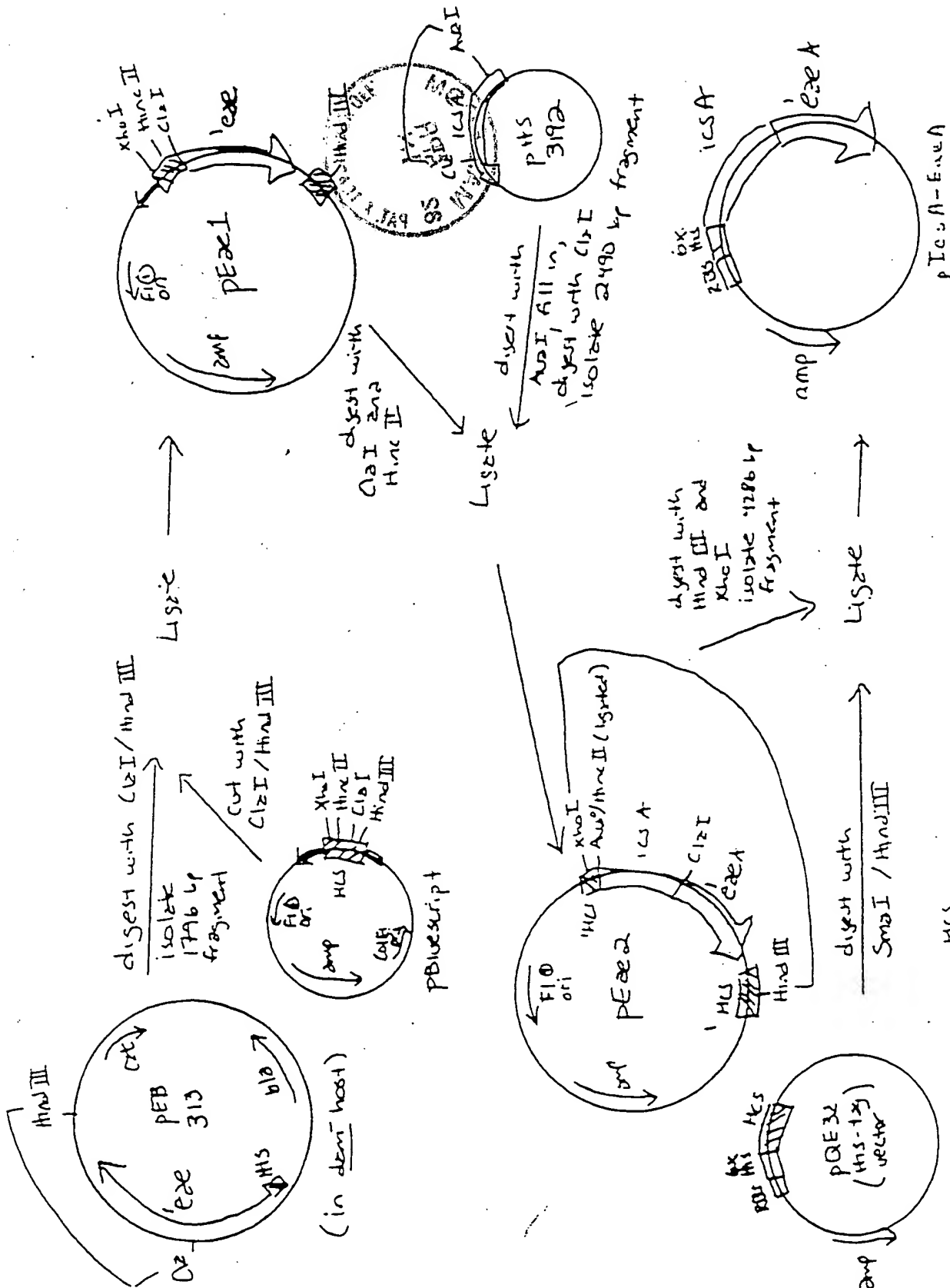


FIGURE 18